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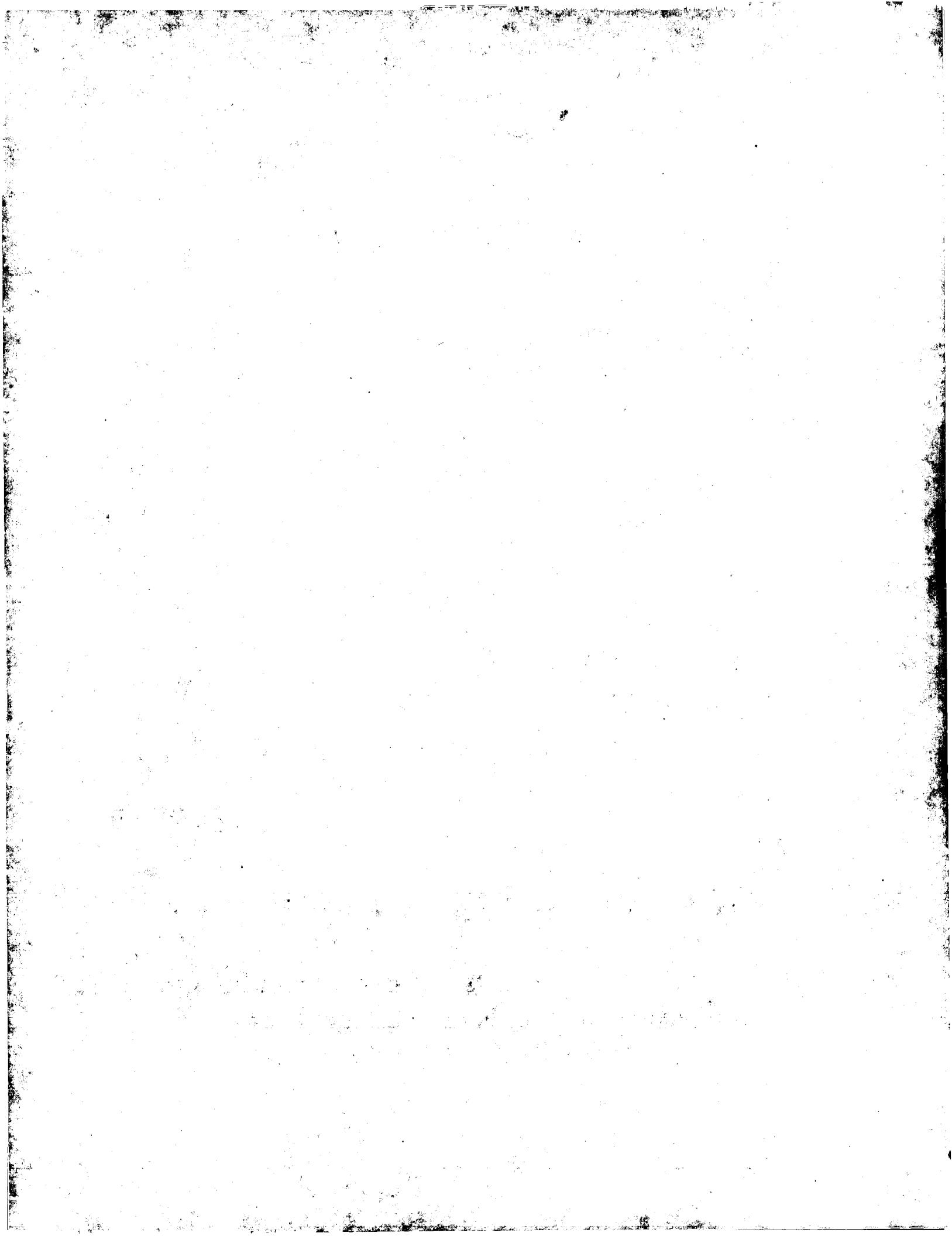
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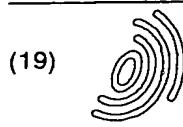
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(71) Applicant: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
Kadoma-shi, Osaka 571 (JP)

(72) Inventors:  
• Aoki, Masaki  
Mino-shi, Osaka-fu 562 (JP)  
• Torii, Hideo  
Higashiosaka-shi, Osaka-fu 578 (JP)

• Fujii, Eiji  
Hirakata-shi, Osaka-fu 578 (JP)  
• Ohtani, Mitsuhiro  
Sakai-shi, Osaka-fu 591 (JP)  
• Inami, Takashi  
Suita-shi, Osaka-fu 565 (JP)  
• Kawamura, Hiroyuki  
Katano-shi, Osaka-fu 576 (JP)  
• Tanaka, Hiroyoshi  
Kyoto-shi, Kyoto-fu 605 (JP)  
• Murai, Ryuichi  
Toyonaka-shi, Osaka-fu 565 (JP)  
• Ishikura, Yasuhisa  
Katano-shi, Osaka-fu 576 (JP)  
• Nishimura, Yutaka  
Kadoma-shi, Osaka-fu 571 (JP)  
• Yamashita, Katsuyoshi  
Katano-shi, Osaka-fu 576 (JP)

(74) Representative: Butcher, Ian James et al  
A.A. Thornton & Co.  
235 High Holborn  
London WC1V 7LE (GB)

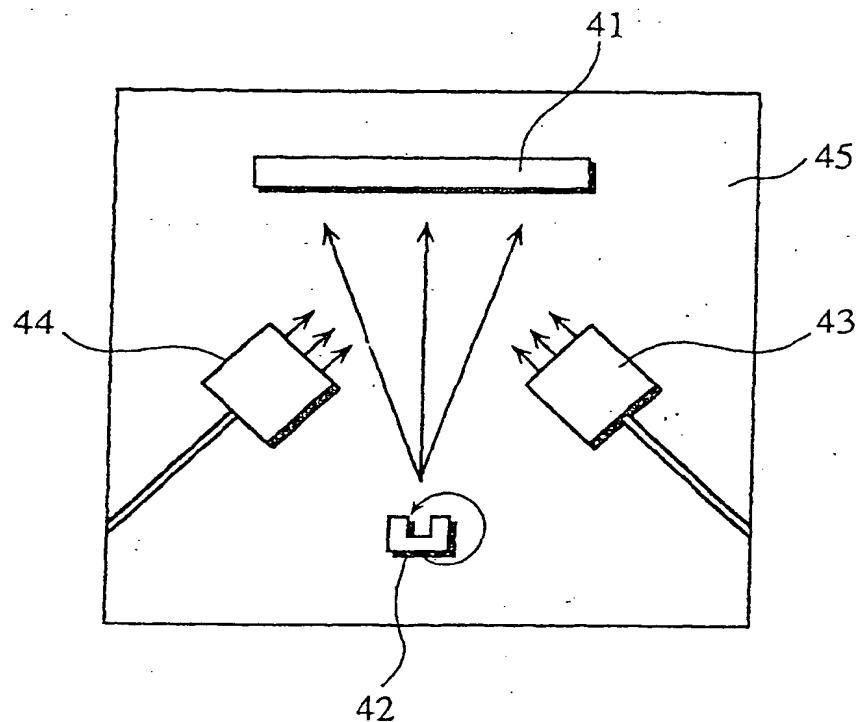
### (54) Plasma display panel suitable for high-quality display and production method

(57) The first object of the present invention is to provide a PDP with improved panel brightness which is achieved by improving the efficiency in conversion from discharge energy to visible rays. The second object of the present invention is to provide a PDP with improved panel life which is achieved by improving the protecting layer protecting the dielectric glass layer. To achieve the first object, the present invention sets the amount of xenon in the discharge gas to the range of 10% by volume to less than 100% by volume, and sets the charging pressure for the discharge gas to the range of 500 to 760Torr which is higher than conventional charging pressures. With such construction, the panel brightness

increases. Also, to achieve the second object, the present invention has, on the surface of the dielectric glass layer, a protecting layer consisting of an alkaline earth oxide with (100)-face or (110)-face orientation. The protecting layer, which may be formed by using thermal Chemical Vapor Deposition (CVD) method, plasma enhanced CVD method, or a vapor deposition method with irradiation of ion or electron beam, will have a high sputtering resistance and effectively protects the dielectric glass layer. Such a protecting layer contributes to the improvement of the panel life.

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Fig. 7





European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 02 00 6618

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TECHNICAL FIELDS SEARCHED (Int.Cl.7)									
C23C H01J									
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 33%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>8 October 2002</td> <td>F de Ruyter-Noordman</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	8 October 2002	F de Ruyter-Noordman
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ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 6618

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08-10-2002

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